**Intro**

The program being exploited is cool player, an mp3 player with two input options – playlists and skins.

* A buffer overflow is when
* Shellcode is
* Data Execution Prevention is
* ROP is
* egg hunting shell code is

**Tutorial**

Tools used in this tutorial are: msfvenom, mfsconsole, Immunity Inc’s Immunity Debugger and the mona plugin for Immunity. The VMs used were Kali 2020 and Windows XP S3.

**No DEP**

**Discussion**

Countermeasures

Discuss how an exploit may be modified to evade an Intrusion Detection System.